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|--|-------------|----------------------|---------------------|------------------|
| APPLICATION NO.  | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
| 10/578,179   | 02/20/2007  | Thomas Urban         | 290718US6PCT        | 5204             |
| 22850  | 7590        | 11/27/2009           |                     |                  |
| OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.<br>1940 DUKE STREET<br>ALEXANDRIA, VA 22314 |             |                      | EXAMINER            |                  |
|  |             |                      | LE, HOANGANH T      |                  |
|  |             | ART UNIT             | PAPER NUMBER        |                  |
|  |             | 2821                 |                     |                  |
|  |             | NOTIFICATION DATE    |                     | DELIVERY MODE    |
|  |             | 11/27/2009           |                     | ELECTRONIC       |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com  
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|                              |                                      |                                     |
|------------------------------|--------------------------------------|-------------------------------------|
| <b>Office Action Summary</b> | <b>Application No.</b><br>10/578,179 | <b>Applicant(s)</b><br>URBAN ET AL. |
|                              | <b>Examiner</b><br>HoangAnh T. Le    | <b>Art Unit</b><br>2821             |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 04 May 2006.

2a) This action is FINAL.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-5 is/are rejected.

7) Claim(s) 6-20 is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement (PTO/SB/08)  
 Paper No(s)/Mail Date 7/06&3/09

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_

5) Notice of Informal Patent Application  
 6) Other: \_\_\_\_\_

**DETAILED ACTION**

1. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 8, the term "preferably" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention.

See MPEP § 2173.05(d).

***Claim Objections***

4. Claims 6-20 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim can not depend on a multiple dependent claim.

See MPEP § 608.01(n). Accordingly, the claims 6-20 have not been further treated on the merits.

***Claim Rejections - 35 USC § 102***

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Mikavica et al (the 1998 article, cited by Applicant).

Regarding claim 1, the Mikavica et al reference teaches in figure 1 an antenna arrangement for transmitting and receiving electromagnetic signals, the antenna arrangement comprising: a flat carrier substrate made of dielectric material, a first conducting track applied to a surface of the carrier substrate, the first conducting track possessing at one end a point of contact so as to gather thereat or inject thereat the signals and a first dipole at the opposite end, a second conducting track applied to the other surface of the carrier substrate, the second conducting track possessing at one end a point of contact so as to gather thereat or inject thereat the signals and a second dipole at the opposite end, the first and the second dipoles forming a crossed dipole.

Regarding claim 2, figure 2 shows a transformer is disposed between the dipoles and the conducting tracks.

Regarding claim 3, figure 2 shows that the zone of the conducting tracks which is linked to a  $\lambda/4$  transformer is embodied in the form of a strip line.

Regarding claim 4,, characterized in that the conducting tracks between the strip line exhibit different widths (figure 1).

Regarding claim 5, a transition line with gradual adaptation of the width is disposed between the asymmetric lines (figure 1).

7. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Nesic et al (the US Patent No. 6,339,406).

Regarding claim 1, the Nesic et al reference teaches in figure 7 an antenna arrangement for transmitting and receiving electromagnetic signals, the antenna arrangement comprising: a flat carrier substrate 11 made of dielectric material, a first conducting track 26 applied to a surface of the carrier substrate, the first conducting track possessing at one end a point of contact so as to gather thereat or inject thereat the signals and a first dipole 21,22 at the opposite end, a second conducting track 28 applied to the other surface of the carrier substrate, the second conducting track possessing at one end a point of contact so as to gather thereat or inject thereat the signals and a second dipole 23,24 at the opposite end, the first and the second dipoles forming a crossed dipole.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HoangAnh T. Le whose telephone number is (571) 272-1823. The examiner can normally be reached on 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Douglas Owens can be reached on (571) 272-1662. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2821

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/HoangAnh T Le/  
Primary Examiner, Art Unit 2821